

Name: \_\_\_\_\_

Date: \_\_\_\_\_

**Algebra 1A Pd B**

**HW: Sect 1.1-1.2; Preview 1.3**

**Directions:** Please write the CAPITAL LETTER of the best answer. Show work when necessary.

1. \_\_\_\_\_ The sale price of an item,  $s$ , is found by taking the difference of the retail price,  $r$ , and the discount,  $d$ . Write an equation to represent this situation.

- A.  $r = sd$       B.  $d = r + s$       C.  $r = s - d$       D.  $s = r - d$

2. \_\_\_\_\_ Simplify the numerical expression  $32 \div 4 - 2 \cdot 3$ .

- A. 48      B. 18      C.  $16/3$       D. 2

3. \_\_\_\_\_ Evaluate the expression  $xy^2$  for  $x = 7$  and  $y = 10$ .

- A. 140      B. 700      C. 3200      D. 4900

4. \_\_\_\_\_ Write an equation to model the situation. Use the variable  $c$  to represent total cost and  $s$  to represent the sales price. The total cost equals the sale price plus a \$25 delivery charge.

- A.  $s = c + 25$       B.  $25 = s + c$       C.  $c = s + 25$       D.  $s = 25 - c$

5. \_\_\_\_\_ Write an algebraic expression for the phrase below. Use the variable  $n$  to represent the unknown. *9 less than 4 times a number*

- A.  $9 - 4n$       B.  $4 - 9n$       C.  $9n - 4$       D.  $4n - 9$

**TURN PAPER OVER!**

6. \_\_\_\_\_ In basketball, two points are awarded for a field goal and one point is awarded for a foul shot. Write an equation for the total number of points in a game,  $P$ , if there are  $g$  field goals and  $f$  foul shots.

A.  $P = f + g$

B.  $P = 2f + g$

C.  $P = f + 2g$

D.  $P = 2fg$

7. \_\_\_\_\_ Order the numbers in the group from least to greatest: 2.030, 2.300, 2.003

A. 2.030, 2.300, 2.003

B. 2.300, 2.030, 2.003

C. 2.003, 2.030, 2.300

D. 2.030, 2.003, 2.300

8. \_\_\_\_\_ Simplify  $|-7 + 3| + 6$ .

A. 2

B. 4

C. 10

D. 16

**CHALLENGE:** What is the square of the difference of nine and eleven?